

GELOY™ XTWE265 resin

Acrylonitrile Styrene Acrylate

SABIC Innovative Plastics Asia Pacific

Message:

Highly weatherable GELOY ASA profile extrusion grade for processes with simple or no calibration hardware.

General Information			
Features	Good weather resistance		
Processing Method	Profile extrusion molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	5.2	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (220°C/5.0 kg)	5.00	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.50 - 0.70	%	Internal method
Water Absorption			ISO 62
Saturated, 23°C	0.55	%	ISO 62
Equilibrium, 23°C, 50% RH	0.15	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	1870	MPa	ASTM D638
--	1900	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	38.0	MPa	ASTM D638
Yield	37.0	MPa	ISO 527-2/50
Fracture ³	29.0	MPa	ASTM D638
Fracture	29.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield ⁴	4.0	%	ASTM D638
Yield	3.0	%	ISO 527-2/50
Fracture ⁵	37	%	ASTM D638
Fracture	40	%	ISO 527-2/50
Flexural Modulus			
50.0mm span ⁶	1880	MPa	ASTM D790
-- ⁷	1900	MPa	ISO 178
Flexural Stress			
--	53.0	MPa	ISO 178
Yield, 50.0mm span ⁸	56.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	18	kJ/m ²	ISO 179/1eA

Notched Izod Impact			
23°C	260	J/m	ASTM D256
23°C ¹⁰	26	kJ/m ²	ISO 180/1A
Instrumented Dart Impact (23°C, Total Energy)			
	35.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	84.0	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ¹¹	75.0	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	82.0	°C	ASTM D1525 ¹²
--	85.0	°C	ISO 306/B50
--	87.0	°C	ISO 306/B120
Linear thermal expansion coefficient			
Flow: -40 to 40°C	1.2E-4	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	1.3E-4	cm/cm/°C	ASTM E831, ISO 11359-2
Extrusion	Nominal Value	Unit	
Drying Temperature	82.2 - 87.8	°C	
Drying Time	3.0 - 6.0	hr	
Cylinder Zone 1 Temp.	204 - 216	°C	
Cylinder Zone 2 Temp.	216 - 232	°C	
Cylinder Zone 3 Temp.	221 - 238	°C	
Cylinder Zone 4 Temp.	227 - 243	°C	
Adapter Temperature	227 - 243	°C	
Melt Temperature	227 - 254	°C	
Die Temperature	227 - 243	°C	
Calibration Temp, First	15.6 - 65.6	°C	
Extrusion instructions			
Drying Time (Cumulative): 12 hrsMinimum Moisture Content: 0.02 %			
NOTE			
1.	5.0 mm/min		
2.	Type 1, 50mm/min		
3.	Type 1, 50mm/min		
4.	Type 1, 50mm/min		
5.	Type 1, 50mm/min		
6.	1.3 mm/min		
7.	2.0 mm/min		
8.	1.3 mm/min		
9.	80*10*4 sp=62mm		
10.	80*10*4		
11.	80*10*4 mm		
12.	标准 B (120°C/h), 载荷2 (50N)		

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